

## **Abstract**

5 A hybrid fuel cell including at least one cathode, at least one anode, and at least one oxygen evolution electrode. The oxygen evolution electrode works in combination with the anode to produce hydrogen and/or oxygen as an electrolyzer while the anode and cathode work in combination to provide an electrical current as a fuel cell. The cathode and the oxygen evolution electrode may operate alone or in tandem during operation of the hybrid fuel cell.